	Predicted: ZERO	**Predicted: ONE**		
True Label: ZERO	**TN**	**FP**	All True Negatives	
True Label: ONE	**FN**	**TP**	All True Positives	
	All Predicted Negatives	All Predicted Positives		**N**

False Positive Rate = 1 - Specificity

$$\textbf{Specificity} = \frac{TN}{TN+FP}$$

% of True Negatives detected correctly
Specificity is recall for Zero class

$$\textbf{Recall} = \frac{TP}{TP+FN} = \textbf{Sensitivity}$$

% of True Positives detected correctly

a.k.a. True Positive Rate

$$\textbf{Accuracy} = \frac{TN+TP}{N}$$

"All True of All"

Misclassification Rate = 1 - Accuracy

$$\textbf{Precision} = \frac{TP}{FP+TP}$$

How precisely can the model predict positives?

- Anti-Spam, Search Engine: optimize for Precision or Specificity
- Fraud, Cancer: optimize for Recall

Helpful
- ROC: Sensitivity vs False Positive Rate